

# Questions

- What are the important roles of an IOC Container?
- What are Bean Factory and Application Context?
- Can you compare Bean Factory with Application Context?
- How do you create an application context with Spring?

# IOC Container

- Find Beans
- Wire Dependencies
- Manage Lifecycle of the Bean

# Application Context

- Bean Factory++
  - Spring's AOP features
  - I18n capabilities
  - `WebApplicationContext` for web applications etc

# Questions

- What are the important roles of an IOC Container?
  - What are Bean Factory and Application Context?
  - Can you compare Bean Factory with **Application Context**?
  - How do you create an application context with Spring?
-



```
@Configuration  
class SpringContext {  
}
```

```
ApplicationContext ctx =  
    new AnnotationConfigApplicationContext(  
        SpringContext.class);
```

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<beans xmlns="http://www.springframework.org/schema/beans"
  xmlns:aop="http://www.springframework.org/schema/aop"
  xmlns:context="http://www.springframework.org/schema/context"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/aop
    http://www.springframework.org/schema/context
    http://www.springframework.org/schema/xsi"
  >
  </beans>
```

```
ApplicationContext context =
    new ClassPathXmlApplicationContext(
        new String[] {"BusinessApplicationContext.xml",
            "Other-Configuration.xml"});
```

# Unit Tests

```
@RunWith(SpringJUnit4ClassRunner.class)
@ContextConfiguration(classes = JavaTestContext.class)
public class DependencyInjectionJavaContextExamples {
```

```
@RunWith(SpringJUnit4ClassRunner.class)
@ContextConfiguration(locations = { "/TestContext.xml" })
public class TodoBusinessTest {
```